

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2000-039595

(43)Date of publication of application : 08.02.2000

(51)Int.Cl.

G02C 11/04

(21)Application number : 10-209547

(71)Applicant : NAITO KATSUYOSHI

(22)Date of filing : 24.07.1998

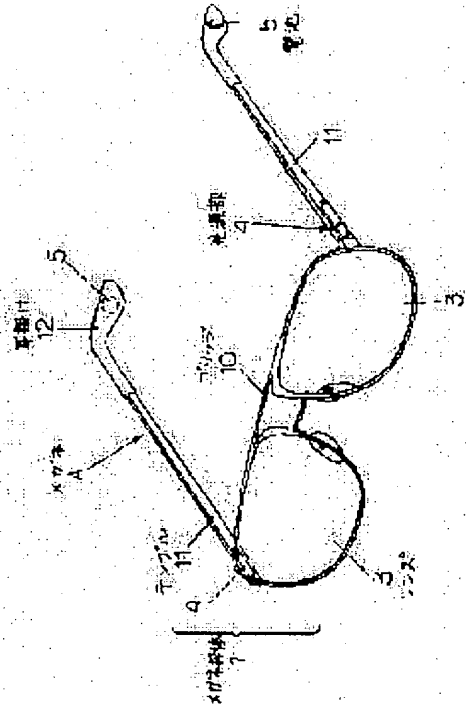
(72)Inventor : NAITO KATSUYOSHI

(54) SPECTACLES WITH LIGHT

(57)Abstract:

PROBLEM TO BE SOLVED: To enable the use of spectacles without an odd feel and the sure irradiation of a visible area by providing the temples of a spectacle frame body with light source parts of easy directivity and adopting the structure that a specific width may be irradiated while viewing a specified angle with these light source parts.

SOLUTION: The spectacle frame body 1 comprises a bridge 10, the temples 11 and bow side ends 12. The bridge 10 of the spectacle frame body 1 is provided with lenses 3. The temples 11 of the spectacle frame body 1 are provided with the light source parts 4 and the bow side ends 12 are provided with batteries 5. These batteries 5 are connected to light sources. A user turns on a switch to light the light sources when viewing characters, etc., in the dark or a dim place in the state of using the same. The spectacles are so constituted that the area allowing the viewing of about 3 to 8 characters in the number of characters or the area allowing the viewing of about 5 cm thereof in a place apart 30 cm from the spectacles may be irradiated with the light of the light sources. If about 3 to 8 characters are visible in such a manner, the spectacles are satisfactorily usable for reading writing, handling of tools, tightening, etc., and the consumption of the batteries may be reduced.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision]

of rejection]

- [Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2000 Japan Patent Office

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

CLAIMS

[Claim(s)]

[Claim 1] The glasses with a light characterized by it being the glasses which consist of a glasses frame and a lens, and the light source section of ***** being prepared in the temple of the glasses frame concerned, and preparing a power supply in the ear credit of this glasses frame, and carrying out the visual field of the fixed angle in the aforementioned light source section, and being able to irradiate the about three to eight abbreviation number of characters, or the size of about 5cm of abbreviation.

[Claim 2] The above-mentioned light source section is glasses with a light according to claim 1 characterized by the ability to change an angle and a direction.

[Claim 3] The glasses with a light according to claim 1 characterized by constituting the attachment section of the above-mentioned light source section from a flexible member.

[Translation done.]

*** NOTICES ***

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[The technical field to which invention belongs] this invention relates to glasses with a light.

[0002]

[Description of the Prior Art] The following reference is mentioned as conventional glasses with a light. (1) With the glasses frame with a light of JP,56-156022,U, it is the composition that the summary built the light between the lenses of a front, and built the cell into the temple, and aim at improvement in a check by looking in darkness. (2) With the glasses frame with a light of JP,57-22720,U, the summary is the same as that of the aforementioned reference (1) and abbreviation. (3) It is the lighting system for a medical examination used for the glasses for a medical examination and glasses of JP,6-7702,U, and the summary is the composition of adopting whether the whole part which prepares and checks the light source section by looking to the bridge of the front section of glasses being made bright, or spot width of face being made condensing, omitting external lighting, such as visibility at the time of a medical examination, and a penlight, and aiming at improvement in a medical examination etc.

[0003]

[Problem(s) to be Solved by the Invention] The aforementioned reference (1) Since - (3) has the lighting sections, such as the light source (light) and the light source section, between the front of a glasses frame, or the lens (bridge) of the front section and they are in the core of a user's so-called face, there is sense of incongruity at the time of use, and there are technical problems, like there is quite a few feeling of resistance in use of that it is thought that it wavers to use, or time long from having heat, although it

[0004] Moreover, since aforementioned reference (1) - (3) remains only for forming a light, a cell, etc. in a glasses frame, it is lacking in ornament nature and has a technical problem in respect of practical use like fields, such as hope to wearing and an idea, running short of devices etc.

[0005]

[Means for Solving the Problem] Invention of a claim 1 aims at offering the glasses with a light which can be used while serving both as that it can be used without sense of incongruity, and check-by-looking area can be irradiated certainly, and a hobby and utility.

[0006] Claims 1 are glasses which consist of a glasses frame and a lens, and are glasses with a light characterized by preparing the light source section of ***** in the temple of the glasses frame concerned, and preparing a power supply in the ear credit of this glasses frame, and carrying out the visual field of the fixed angle in the aforementioned light source section, and being able to irradiate the about three to eight abbreviation number of characters, or the size of about 5cm of abbreviation.

[0007] Invention of a claim 2 secures the free nature and convenience of the direction of radiation of a light, and aims at attaining the certainty of the direction of radiation of a parenthesis, simple nature, etc.

[0008] Claims 2 are glasses with a light characterized by the ability of the light source section to change an angle and a direction.

[0009] Invention of a claim 3 is one-touch, and changes the direction of radiation of the light source (light) freely, and aims at giving convenience to use.

[0010] Claims 3 are glasses with a light characterized by constituting the attachment section of the light

source section from a flexible member.

- [0011]

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

TECHNICAL FIELD

[The technical field to which invention belongs] this invention relates to glasses with a light.

[Translation done.]

*** NOTICES ***

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

PRIOR ART

[Description of the Prior Art] The following reference is mentioned as conventional glasses with a light. (1) With the glasses frame with a light of JP,56-156022,U, it is the composition that the summary built the light between the lenses of a front, and built the cell into the temple, and aim at improvement in a check by looking in darkness. (2) With the glasses frame with a light of JP,57-22720,U, the summary is the same as that of the aforementioned reference (1) and abbreviation. (3) It is the lighting system for a medical examination used for the glasses for a medical examination and glasses of JP,6-7702,U, and the summary is the composition of adopting whether the whole part which prepares and checks the light source section by looking to the bridge of the front section of glasses being made bright, or spot width of face being made condensing, omitting external lighting, such as visibility at the time of a medical examination, and a penlight, and aiming at improvement in a medical examination etc.

[Translation done.]

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

EFFECT OF THE INVENTION

[Effect of the Invention] Invention of a claim 1 is the structure which constitutes glasses from a glasses frame and a lens, prepares the light source section of ***** in the temple of this glasses frame, and carries out the visual field of the fixed angle in the light source section, and can irradiate the about three to eight abbreviation number of characters, or the size of about 5cm of abbreviation. Therefore, it means that it can be used serving both as that it can be used without sense of incongruity, and check-by-looking area can be irradiated certainly, and a hobby and utility etc.

[0019] Invention of a claim 2 is glasses with a light characterized by the ability of the light source section to change an angle and a direction. Therefore, the free nature and convenience of the direction of radiation of a light are secured, and there is the feature which can attain the certainty of the direction of radiation of a parenthesis, simple nature, etc.

[0020] Invention of a claim 3 is glasses with a light characterized by constituting the attachment section of the light source section from a flexible member. Therefore, it is one-touch, and the direction of radiation of the light source (light) is changed freely, and convenience can be given to use.

[Translation done.]

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

TECHNICAL PROBLEM

[Problem(s) to be Solved by the Invention] The aforementioned reference (1) Since - (3) has the lighting sections, such as the light source (light) and the light source section, between the front of a glasses frame, or the lens (bridge) of the front section and they are in the core of a user's so-called face, there is sense of incongruity at the time of use, and there are technical problems, like there is quite a few feeling of resistance in use of that it is thought that it wavers to use, or time long from having heat, although it [0004] Moreover, since aforementioned reference (1) - (3) remains only for forming a light, a cell, etc. in a glasses frame, it is lacking in ornament nature and has a technical problem in respect of practical use like fields, such as hope to wearing and an idea; running short of devices etc.

[Translation done.]

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

EXAMPLE

[Example] Hereafter, one example of this invention is explained based on a drawing.

[0014] 1 is the glasses frame of Glasses A and this glasses frame 1 consists of a bridge 10, and a temple 11 and the ear credit 12. Lenses 3 and 3 are formed in the bridge 10 of this glasses frame 1. The above-mentioned glasses A are the same as that of the conventional glasses (not shown) and abbreviation.

[0015] 4 is the light source section prepared in the temple 11 of the glasses frame 1, and is at the example of drawing 1 - drawing 3. This light source section 4 is the composition in which consists of the attachment section 41 attached in a temple 11, and the light source (light) 42 prepared in this attachment section 41, and the light source (light) 42 can irradiate a visual field at a fixed angle through the flexible property of the attachment section 41, rotation, rocking, repositioning, other meanses, etc. In addition, the light source (light) 42 makes the abbreviation for about 3-8 characters the range which can be illuminated and checked by looking. Therefore, it aims at checking the narrow range by looking. In addition, the method which forms the light source section 4 has an outside side and the upper surface desirable [considering attainment and effect of convenience and light, appearance, etc.,], although any, such as an outside side of a temple 11, the upper surface, an inside, or built-in, are sufficient as it. Moreover, it is constituted from the example of drawing 4 - drawing 8 by the attachment section 41 attached in a temple 11, and the light source (light) 42 prepared in this attachment section 41 free [rotation and/or for the first time in / a neck], and is the composition that the light source (light) 42 turns to the predetermined direction freely through rotation of the attachment section 41 etc. Other composition, the effect, etc. are the same as that of the above-mentioned example and abbreviation.

[0016] 5 is the cell formed in the ear credit 12 of the glasses frame 1, and is connected with the aforementioned light source (light) 42. Although a cell 5 is formed in this ear credit 12, since it does not become comparatively obstructive at the time of use and appearance does not become bad, this ear credit 12 of the ear credit 12 concerned is desirable. In addition, since the ear credit 12 concerned becomes a little large by forming a cell 5, it gives other purposes to this ear credit 12. For example, it is desirable to consider as the composition which can perform attachment and detachment of the hanging section (it is desirable to prepare a hole.) of enrichments, such as to give an ornament or a chain, a ornamental braid, and an earring, and other enrichments etc. in order to profit as an ornament object.

[0017] In addition, the switch of the light source section 4 can consider the example prepared in the light source section 4 the very thing concerned, the example prepared for the proper place of the glasses frame 1.

[Translation done.]

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is the perspective diagram showing an example of the whole glasses.

[Drawing 2] It is the perspective diagram expanding and showing an example of the light source section of drawing 1.

[Drawing 3] It is the side elevation of drawing 1.

[Drawing 4] It is the perspective diagram showing other examples of the whole glasses.

[Drawing 5] It is the perspective diagram expanding and showing an example of the light source section used for drawing 4.

[Drawing 6] It is the perspective diagram showing an example which circled in the light source section of the glasses of drawing 4.

[Drawing 7] It is the plan showing an example which circled in the light source section of the glasses of drawing 4.

[Drawing 8] It is the side elevation showing an example which moved the light source section of the glasses of drawing 4 up and down.

[Description of Notations]

1 Glasses frame.

3 Lens.

4 Light source section.

41 Attachment section.

42 Light Source (Light)

5 Cell.

10 Bridge.

11 Temple.

12 Ear credit.

A Glasses.

[Translation done.]

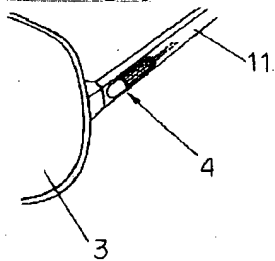
* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

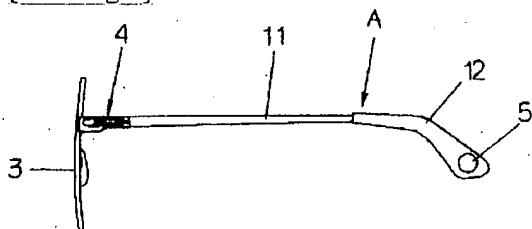
1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

DRAWINGS

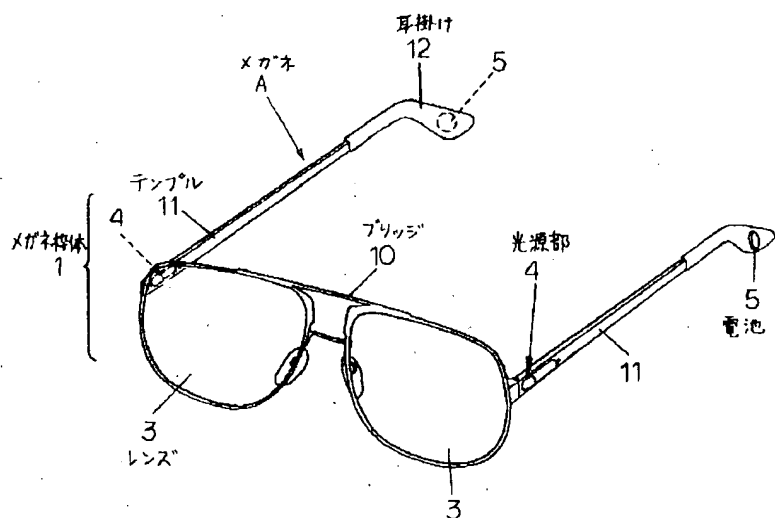
[Drawing 2]



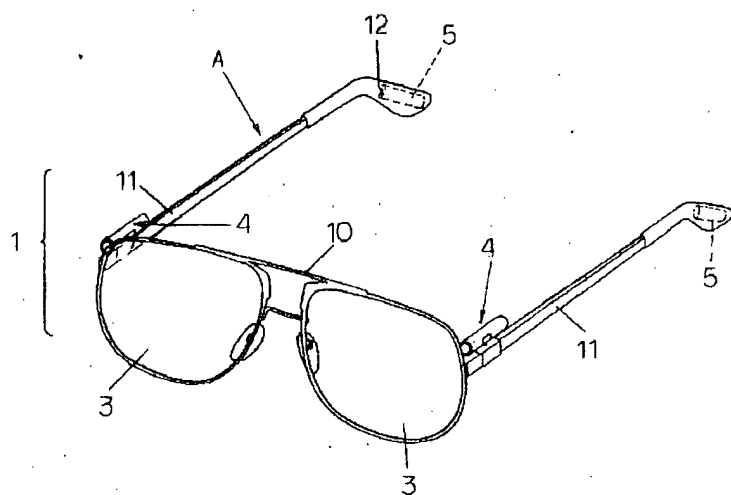
[Drawing 3]



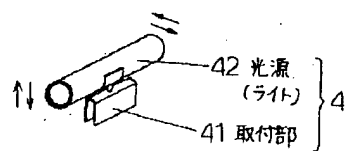
[Drawing 1]



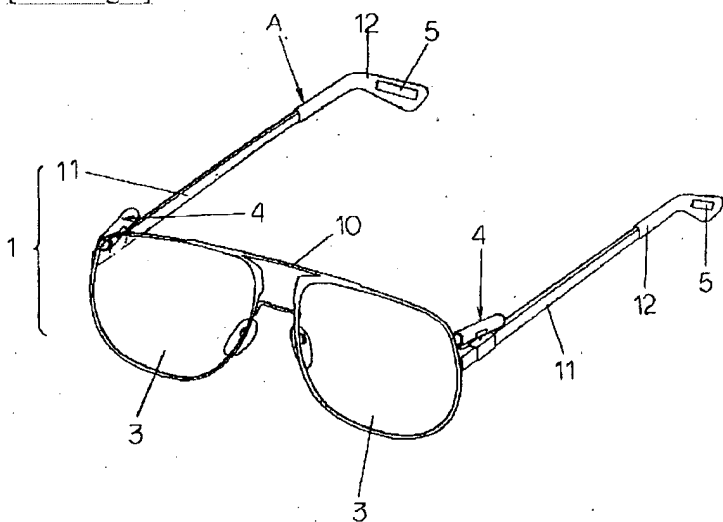
[Drawing 4]



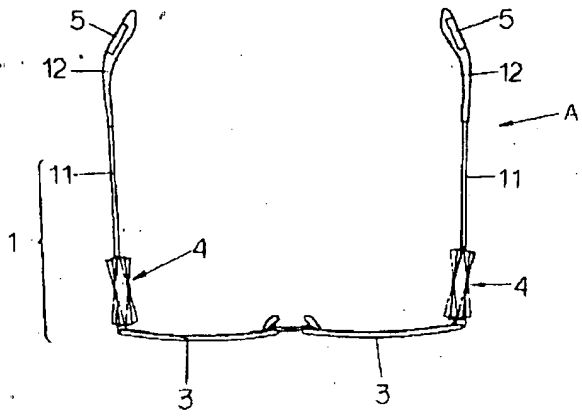
[Drawing 5]



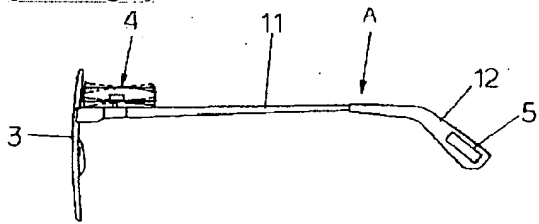
[Drawing 6]



[Drawing 7]



[Drawing 8]



[Translation done.]

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.